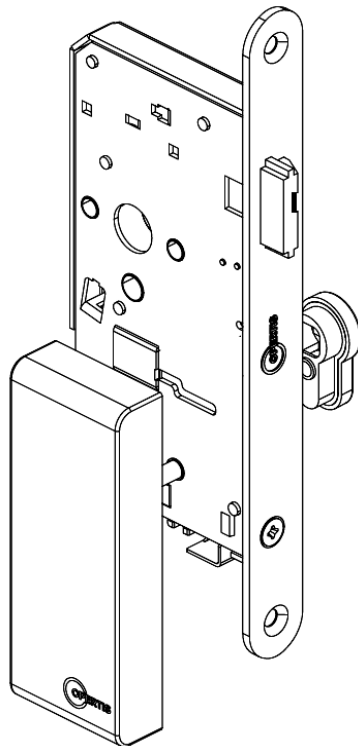


## Operating instructions

APS Comfort system for flush doors  
ES7660, ES6660, ES7661, ES6661





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# 1 Introduction

## About these instructions

These instructions contain important information on operation of the APS Comfort systems for flush doors ES7660, ES6660, ES7661 and ES6661.

- Read through the instructions carefully.
- Keep the instructions in a safe place and pass them on to each subsequent owner/user of the APS Comfort system for flush doors.

## Explanation of the symbols and signal words used

 WARNING	Indicates hazards which could result in severe or fatal injuries.
 CAUTION	Indicates hazards which could result in minor or moderate injuries.
CAUTION	Indicates hazards which could result in damage to property.
Note	Indicates information and tips for optimum use of the instructions and the product.

## Target group

These instructions are directed at competent personnel entrusted with the servicing, care, disposal and maintenance of fault free operation of the APS Comfort system for flush doors and who have received suitable training for these activities or have appropriate experience.

## OPERTIS Support

If you have any questions which are not answered by the information provided in these instructions, please contact

OPERTIS GmbH  
Prof.-Bier-Straße 1-5  
D-34454 Bad Arolsen  
Tel.: +49 5691 87741-200  
Fax: +49 5691 87741-281  
Email: support@opertis.de

**Up-to-date information**

All details of the product, images, dimensions and versions are correct at the time of delivery of the product. We reserve the right to make changes in line with technical progress and the resulting continuous improvement process of our products.

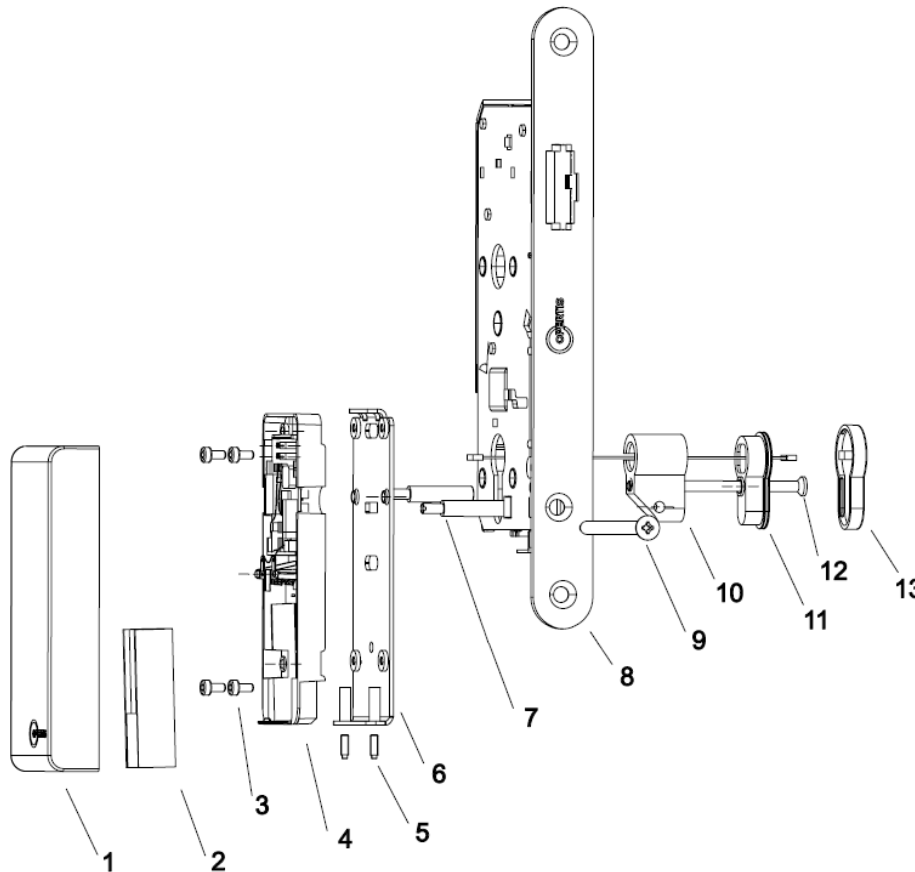
The current version of these instructions and further information is also available on our internet site [www.opertis.de](http://www.opertis.de).

Dated 09/2013

## 2 Product description

### Component parts

The following drawing shows the component parts of the APS Comfort system for flush doors:



1	Stainless steel cap
2	Battery
3	M3x6 screws
4	Housing with electronics
5	M3x9 setscrews
6	Mounting plate
7	M4xM4 and M4xM5 screw-in cams
8	APS lock
9	Forend screw M5x80
10	Profile cylinder adapter with antenna cable
11	Profile cylinder housing
12	Countersunk screw M4, dependent on door thickness
13	Profile cylinder cover made of plastic with antenna

## Functional principle

Self-locking motor panic lock with integrated electronics in accordance with DIN 18251.

The OPERTIS eLOCK locking system ensures continuous, consistent fitout of a building. Special fitting solutions are available for different door types.

The APS Comfort system for flush doors includes a self-locking lock, which locks automatically when the door is closed. There is no locking in the conventional sense, with a knob or key; mechanical locking is no longer necessary.

With the APS Comfort system for flush doors the inside door lever handle is always coupled. Thanks to the integrated anti-panic function when the inside door lever handle is pressed the latch and release lever are drawn back; the door can always be opened from the inside. The panic function cannot be switched off.

With the APS Comfort system for flush doors the outside door lever handle is in an uncoupled state and has no function. It can be pressed, but has no connection with the latch and release lever. In this state the door cannot be opened using the outside door lever handle. The access organisation is implemented by short-term coupling of the otherwise empty running outside door lever handle after holding an authorised identifier in front of the antenna. When the coupled outside door lever handle is pressed the latch and release lever are pulled back.

There is no unlocking in the conventional sense with a knob or key; mechanical unlocking is no longer necessary.

The management and programming, including the issue of access authorisations, is carried out using the eLOCK Center Optional programming with eLOCK Lern Löscher using three programming keys and without additional software is also possible.

Various types of passive identifiers without their own power supply, such as key fobs, cards and customised types are available for authorisation at the fittings.

## Detailed information

Further information on the product is given in Section 8 "Product specification".

## 3 Intended use

### Area of use

The APS Comfort system for flush doors conforms to the installation dimensions for a mortice lock in accordance with DIN 18251 and is designed for use on rebated and unrebated interior doors. Use on external doors is only allowed if the electronics are installed in the protected interior. Use on fire doors or outdoors, e.g. in fences, is not allowed.

The lock meets the requirements for doors on escape routes in accordance with EN 179 and 1125. Approved, tested fittings are used.

### Condition of the product

APS Comfort systems for flush doors may only be used if they are in faultless technical condition.

Independent modifications and changes to the product are not allowed.

### Ambient conditions

Use in particularly difficult environments, e.g. aggressive gases, high humidity, extreme temperatures or very dusty environment is not allowed. If you have any questions, please contact OPERTIS Support.

### Power supply

All battery operated fittings activate acoustic "battery empty" warnings and controlled false closures when the battery power in the fitting is drawing to an end. The battery should then be replaced without delay.

In the event of repeated ignoring of the battery empty warning the APS Comfort system for flush doors permanently decouples the lever handles (Active Power Off). The Active Power Off state is signalled by an acoustic warning (see Operating Instructions Chapter 5 Operation and Control). This state is retained until the battery is replaced or if applicable an external power supply is provided on the outside of the door beforehand.

### Residual risk

If used properly as intended and in compliance with the maintenance instructions, this product will help to maintain your property security.

However, the following residual risks cannot be excluded:

- There is a risk of being locked out if the electromechanical components fail.
- If the battery is suddenly and completely discharged the APS Comfort system for flush doors does not work. It does not signal any battery warnings and does not switch to the Active Power Off state. The door can then only be opened from the outside of the door using the external power supply (EPS) ES6781 for ES5000 plus systems or ES7781 for eLOCK and eLOCK LernLösch systems.



## 4 Safety instructions

The following safety instructions must be noted and followed before use! OPERTIS does not accept any liability whatsoever for personal injuries or damage to property caused by failure to follow these instructions!



### **WARNING**

#### **Risk of personal injuries due to the batteries**

Improper handling of the batteries results in health damage. Note and comply with the following instructions:

- Only use batteries supplied or approved by OPERTIS.
- Do not open, solder or weld batteries
- Do not throw batteries into a fire.
- Do not recharge the batteries.
- Remove empty batteries from the fitting immediately.
- Keep batteries out of reach of children.
- Do not touch leaked batteries without appropriate protection. Do not bring into contact with the eyes or mouth.



### **CAUTION**

#### **Risk of damage to property**

Malfunctions can occur if unapproved types of battery are used. The fitting then does not signal any battery warnings and does not switch to the secured final state of Active Power Off.

Only use battery types approved by OPERTIS.



### **CAUTION**

#### **Risk of being locked in or out**

Without a properly functioning fitting, the door cannot be opened when the latch drops into the lock.

When installing the system or changing batteries keep the door open, or ensure that the door can be opened at any time without use of the fitting.

**CAUTION****Unauthorised access**

As an anti-panic lock, the inside lever handle of the APS Comfort system for flush doors is basically coupled. This means that the door can be opened at any time using the inside lever handle. Please bear this in mind, especially if using the fitting on doors accessible to the public and doors where the inside lever handle can be easily accessed from the outside.

**CAUTION****Unauthorised access**

In the as-delivered condition the APS Comfort system for flush doors is in construction site mode. Access is possible with any OPERTIS identifier, even if unprogrammed.

Immediately following installation you should program the authorisations to prevent unauthorised access, refer to the eLOCK software system documentation; at the same time you must check the time and if necessary reset it.

## 5 Use and Operation

### Programming fittings and identifiers

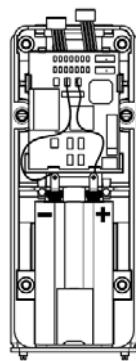
Fittings and identifiers are programmed using the eLOCK Center management software or the eLOCK LernLöschen system. More detailed information is given in the eLOCK system documentation - software.

### Change the battery

#### Note

Note the details of the battery type given in the "Technical data" section.

Proceed as follows:

Step	Activity	Figure
1	Screw the M3x9 setscrews into the mounting plate and remove the stainless steel cap.	
2	Remove the battery.	
3	Insert a new battery in the battery compartment, making sure that the battery is inserted with the correct polarity. See figure.	
4	Place the stainless steel cap on the top of the mounting plate and hook into place.	
5	Attach the stainless steel cap to the bottom of the mounting plate using two M3x9 setscrews.	
6	Perform a closing action by holding an authorised identifier in front of the antenna. Check the date and time and if necessary reset: see eLOCK software system documentation.	

## Acoustic signals

The acoustic and visual signals of the Comfort system for flush doors depend on the programming. The programmed fittings in the AddDelete system and the fittings programmed using eLOCK Center have a different signalling concept.

### Note

The complete visual and acoustic signals are included in the eLOCK system documentation "Signalling Concept" section.

Acoustic signal	Meaning
1x ascending sound sequence.	Programming mode on.
1x descending sound sequence.	End of programming mode (automatic).
1x short high-pitch.	Fitting connection by authorised identifier.
1x long low-pitch.	No fitting connection, identifier not authorised.
1x long low + 5x sound sequence short high	Battery empty, warning level 1 with controlled failed locking
1x long low + 3x sound sequence short high	Active Power Off, battery completely discharged
1x short high-pitch.	Fitting connection in construction site mode or permanent release mode, see eLOCK system documentation "Fitting Modes" section.
1x long low-pitch + 4x short low-pitch	System error! Dismantle Comfort system, contact OPERTIS Support!

## 6 Servicing, Cleaning and Maintenance

Maintenance and cleaning may only be carried out by qualified personnel.

We do not provide any warranty whatsoever for damage caused by improper handling.

### Intervals

Activity	Interval
Cleaning and maintenance	3 months
Maintenance	1 year

### Cleaning and maintenance

#### CAUTION

#### Material damage due to incorrect cleaning

Incorrect cleaning can cause attack and damage to the surfaces:

- Clean and maintain the APS Comfort system for flush doors from the outside only (do not remove the cover caps!).
- Do not use alkali, acidic or chlorine-containing cleaning agents.
- Do not use cleaning agents containing abrasive additives.
- Do not use abrasive instruments, e.g. brushes.
- Do not let any oil or grease to get inside the electromechanical lock.
- Do not let any cleaning agents to get inside the lock case.

Proceed as follows:

Step	Activity	Figure
1	Wipe down the surfaces with a damp cloth.	
2	Lightly grease the slanted face of the extended latch.	

**Servicing****CAUTION****Risk of being locked in or out**

Without a properly functioning fitting, the door cannot be opened when the latch drops into the lock.

Carry out functional checks while the door is open.

The following functional checks must be carried out at least once a year:

Step	Activity	Result
1	Check for secure fit of the lock, the installed fittings and the screws.	All components of the APS Comfort system for flush doors are securely installed. The latch and the release lever move smoothly and easily.
2	Press the outside lever handle.	The outside lever handle is not engaged. The latch is not retracted
3	Hold an authorised OPERTIS identifier in front of the reading unit, then press the outside lever handle.	The latch is retracted and after pulling back moves back out again automatically.
4	Press the inside lever handle.	
5	Check the self-locking. Press in the release lever.	The latch and the release lever must spring out. The latch and the release lever cannot be pressed in.
6	Check the panic function: With the lock locked, press the inside lever handle.	The latch and the release lever are drawn in by the actuation of the lever handle.
7	Check the panic function: With the lock locked, press coupled outside lever handle.	

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Step	Activity	Result
8	<b>CAUTION</b> <b>Risk of being locked out</b> When closing the door from the outside you must have an authorised identifier in order to re-open the door!  Close the door from the inside.	The lock bolt must spring out.
9	Press the inside lever handle or the coupled outside lever handle.	The latch and release lever are retracted: the bolt must not rub against the locking plate.
10	Read the fitting information; refer to the eLOCK software system documentation.	

## 7 Problems and solutions

Problem	Possible cause	Solution
The APS Comfort system for flush doors does not open or close.	The identifier is not an OPERTIS identifier for the locking system.	Use an OPERTIS identifier.
	The identifier is not programmed or does not have the necessary authorisations.	Program the identifier; refer to the eLOCK software system documentation.
	Identifier is defective.	Replace the identifier.
	Fitting has wrong date or wrong time.	Reset the time; refer to the eLOCK software system documentation.
	Batteries are empty or defective.	Change the battery and use an identifier to operate the APS Comfort system for flush doors once.
		Connect an external power supply to the outside of the APS Comfort system for flush doors. Then change the battery and use an identifier to operate the APS Comfort system for flush doors at least once.
	The antenna connector has loosened or detached itself.	Plug in the antenna connector fully.
	Antenna is defective.	Replace the antenna.
	Cables are crushed or clamped.	Replace the APS Comfort system for flush doors.
	There are chips or lubricant in the Comfort system.	Replace the APS Comfort system for flush doors.



Problem	Possible cause	Solution
The lever handles are not in the horizontal position (APS Comfort system for flush doors is not working properly).	Lever handles installed at an angle or under pressure.	Install the lever handles correctly and check for smooth and easy movement.
	The lever handles are too heavy.	Replace the existing lever handles with lighter ones or use an additional retraining spring.
Each identifier is authorised for the lock.	Fitting is not programmed ("construction site mode").	Program the fitting; refer to the eLOCK software system documentation.
Latch does not engage.	The latch cut-out in the strike plate does not match the latch position of the APS Comfort system for flush doors.	Adjust the latch cut-out in the strike plate so that it matches the latch position of the APS Comfort system for flush doors.
	Door or doorframe is warped.	Adjust door or doorframe or rather the hinges.
The lock does not lock.	The self-locking is defective.	Replace the lock immediately.
The lock bolt is not retracted when the inside lever handle or coupled outside lever handle is pressed.	The panic function is defective.	Replace the lock immediately. <b>The door must not be closed, as the panic function is no longer available!</b>
The APS Comfort system for flush doors is permanently coupled. The door can be opened without the authorisation of an identifier.	The fitting's switch mode is activated; see eLOCK system documentation, "Fitting modes" section.	Deactivate switch mode. <ul style="list-style-type: none"> <li>○ Reconfigure the fitting time profile.</li> <li>○ Authorisation with Switch IT, in order to deactivate the switch mode.</li> </ul>

## 8 Product specifications

### Declaration of Conformity

OPERTIS GmbH herewith declares that the APS Comfort systems for flush doors are in accordance with the essential requirements and other relevant standards of the Directives 1999/5/EC and 2011/65/EU and conform to CE.

A copy of the Declaration of Conformity can be obtained through OPERTIS Support.

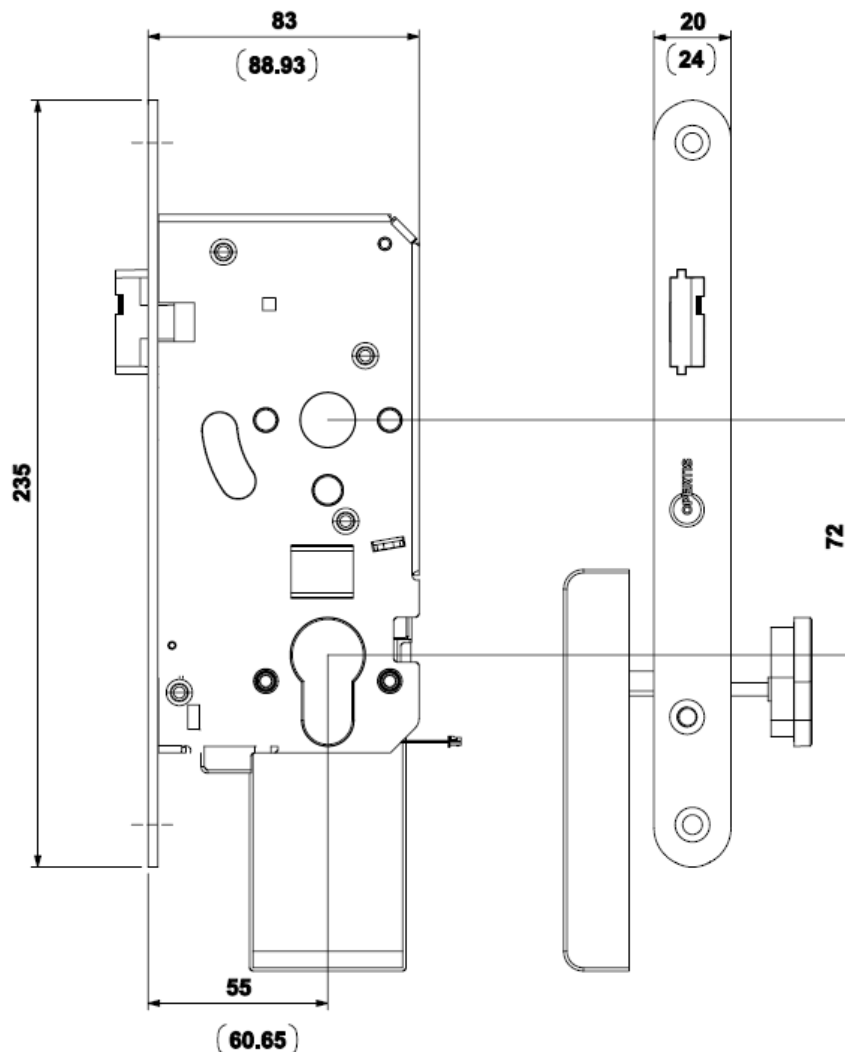
Installation in mortice locks prepared for profile cylinder in accordance with DIN 18251: Locks - Mortice locks - Part 1: Mortice locks for rebated doors

The lock has a regulatory test certificate issued by the MPA Dortmund. It is marked accordingly.

### Dimensions

All dimensions given in mm.

#### ES7660 and ES6660



**Technical data****Surface**

Forend	Stainless steel
Profile cylinder cover	Polyamide surface
Masking cap	Stainless steel

**Power supply**

Supply voltage	3 volt lithium battery CR-3V OPERTIS Art. No.: ES0893
Battery life:	depending on use conditions and fitting type:
<ul style="list-style-type: none"> <li>○ Ready to use: (with approx. 10 closures per day)</li> <li>○ Closures (total)</li> <li>○ Standby time</li> </ul>	<ul style="list-style-type: none"> <li>○ up to 3 years</li> <li>○ up to 100,000 closures</li> <li>○ up to 5 years</li> </ul>

**Specific data**

Operating temperature	0 °C to +45 °C		
Storage temperature	-20 °C to +60 °C		
Humidity for operation and storage	max. 95% non-condensing		
Degree of protection to EN 60529	IP 21		
Lock strength to DIN 18251 Class 4	Increased burglar resistance and high user frequency		
VdS (Association of German Property Insurance Companies) inspection	The lock has been tested and approved by the VdS.		
Memory capacity in the fitting:	ES6xxx	ES7xxx	ES7xxx LernLösch
Identifier	60.000	80.000	100
Protection zones (membership of a group of fittings)	296	30	-
Events memory (authorisation attempts)	512	628	-

## 9 Disposal

### Product



Disposal in accordance with WEEE Directive 2012/19/EC:

- Do not dispose of product in the local household waste.
- Send product back to OPERTIS or dispose of it at a communal collection point for hazardous electronic wastes.

### Batteries



- Do not dispose of batteries in the local household waste system, but instead at the public battery collection points.
- Do not throw batteries into a fire.
- Do not store used batteries together.
- Only dispose of batteries if they are discharged.

### Product packaging

The product packaging must be disposed of through the local household or paper waste collection facility.

### Notes:









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